

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P583029

Luminaire Tested: **HC655D010-HM64560835-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5270.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

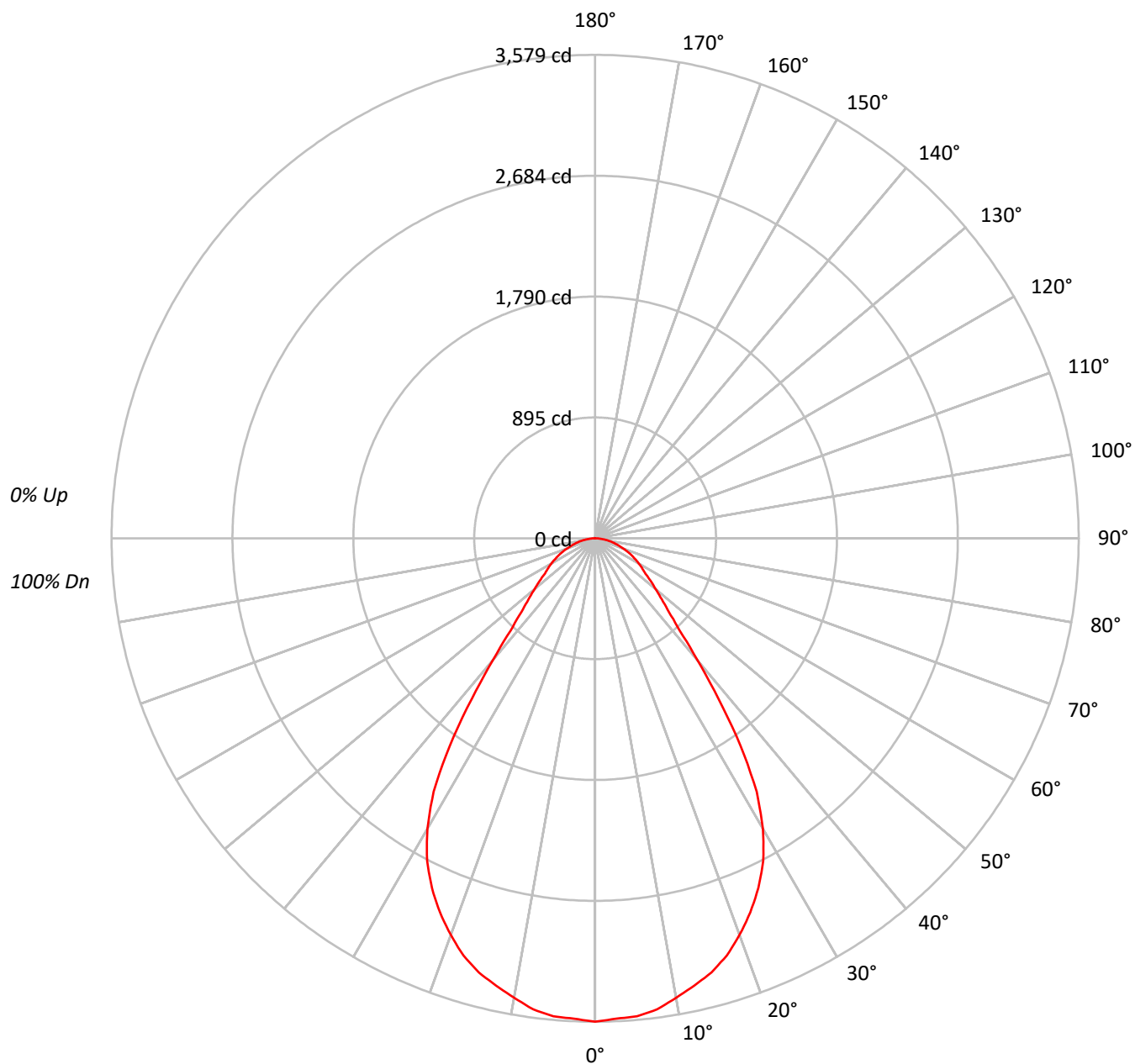
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	196196
5°	195476
10°	192220
15°	188826
20°	182302
25°	172861
30°	157233
35°	125628
40°	83828
45°	59750
50°	49789
55°	43392
60°	40995
65°	38603
70°	35471
75°	33127
80°	30086
85°	26418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	6.4
10°-20°	934.2	17.7
20°-30°	1305.4	24.8
30°-40°	1150.0	21.8
40°-50°	621.3	11.8
50°-60°	415.4	7.9
60°-70°	294.4	5.6
70°-80°	165.5	3.1
80°-90°	48.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2575.6	48.9
0°-40°	3725.6	70.7
0°-60°	4762.2	90.4
0°-90°	5270.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5270.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3579	
5°	3552	336
15°	3327	934
25°	2858	1305
35°	1877	1150
45°	771	621
55°	454	415
65°	298	294
75°	156	165
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3578.9
2.5°	3559.9
5°	3552.2
7.5°	3517.9
10°	3453.1
12.5°	3392.0
15°	3327.1
17.5°	3239.4
20°	3124.9
22.5°	2999.0
25°	2857.8
27.5°	2693.7
30°	2483.9
32.5°	2224.4
35°	1877.2
37.5°	1499.5
40°	1171.4
42.5°	923.3
45°	770.7
47.5°	667.7
50°	583.8
52.5°	515.1
55°	454.0
57.5°	412.0
60°	373.9
62.5°	335.7
65°	297.6
67.5°	259.4
70°	221.3
72.5°	186.9
75°	156.4
77.5°	125.9
80°	95.3
82.5°	68.7
85°	42.0
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)